# Scedo-Select III: a new semi-selective culture medium for detection of the Scedosporium apiospermum species complex



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| Titre | Scedo-Select III: a new semi-selective culture medium for detection of the Scedosporium apiospermum species complex |
| Type de publication | Article de revue |
| Auteur | Pham, Tram Pham Quynh [1], Giraud, Sandrine [2], Schuliar, Gaëlle [3], Rougeron, Amandine [4], Bouchara, Jean-Philippe [5] |
| Pays | Royaume-Uni |
| Editeur | Oxford University Press |
| Ville | Oxford |
| Type | Article scientifique dans une revue à comité de lecture |
| Année | 2015 |
| Langue | Anglais |
| Date | Juin 2015 |
| Numéro | 5 |
| Pagination | 512-519 |
| Volume | 53 |
| Titre de la revue | Medical Mycology |
| ISSN | 1460-2709 |
| Mots-clés | Environment [6], filamentous fungi [7], Scedosporium apiospermum complex [8], Semi-selective medium [9] |
| Résumé en anglais | The *Scedosporium apiospermum* complex is responsible for a large variety of infections in human. Members of this complex have become emerging fungal pathogens with an increasing ocurrence in patients with underlying conditions such as immunosuppression or cystic fibrosis. A better knowledge of these fungi and of the sources of contamination of the patients is required and more accurate detection methods from the environment are needed. In this context, a highly selective culture medium was developed in the present study. Thus, various aliphatic, cyclic, or aromatic compounds were tested as the sole carbon source, in combination with some inorganic nitrogen sources and fungicides. The best results were obtained with 4-hydroxy-benzoate combined with ammonium sulfate and the fungicides dichloran and benomyl. This new culture medium called Scedo-Select III was shown to support growth of all species of the *S. apiospermum* complex. Subsequently, this new culture medium was evaluated successfully on water and soil samples, exhibiting higher sensitivity and selectivity than the previously described SceSel+ culture medium. Therefore, this easy-to-prepare and synthetic semi-selective culture medium may be useful to clarify the ecology of these fungi and to identify their reservoirs in patients' environment. |
| URL de la notice | http://okina.univ-angers.fr/publications/ua10918 [10] |

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| DOI | 10.1093/mmy/myv015 [11] |
| Lien vers le document | http://dx.doi.org/10.1093/mmy/myv015 [11] |
| Titre abrégé | Med. Mycol. |

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**Liens**
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[11] http://dx.doi.org/10.1093/mmy/myv015